

ABSTRACT

The present invention provides an improved swash plate type variable capacity fluid machine which is fluid-tight, simple in structure, quiet in operation, and
5 highly durable, yet without increasing its size, weight, and the amount of power loss.

The swash plate type variable capacity fluid machine (61) comprises: a cone (3); a disk (5); an enclosure wall (9) whose inner spherical surface surrounds the outer circumference of the disk (5); and a partition plate (7) movably fitted in a groove (17) of the cone (3). The cone (3) and the disk (5) are arranged to confront each other on
10 an abutment line (A), thereby defining a plurality of variable capacity compartments (B, C, D). Supplying/discharging holes (31, 33) are provided to communicate with the variable capacity compartments (B, C, D), supplying and discharging a fluid there from. A synchronous mechanism (29) causes the cone (3) and the disk (5) to rotate about their center axis in synchronization.